



Shuttle Launch Weather Forecast

Vehicle: STS-121, Discovery (OV-103)
Issued: 2 July 2006/1230Z (0830 EDT)
Valid: 2 July 2006 1921 – 1931Z (1521 – 1531 EDT)
Launch Weather Team: (321) 853-8484

Synoptic Discussion: A high pressure ridge is located to the north causing easterly flow across Central Florida. Also, an easterly wave is over Florida. This wave will bring coastal showers and isolated thunderstorms into the east coast of Florida today. Upper-level winds from the west will cause anvils from inland thunderstorms to advect back to the coast. **Our primary concerns for launch are showers, cumulus clouds, and anvil clouds from inland thunderstorms.**

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	5/8 Broken	3,000	5,000
Altocumulus	2/8 Scattered	12,000	13,000
Cirrus	5/8 Broken	25,000	30,000
Weather: Showers and thunderstorms.			
Visibility: 7 miles			
Wind: 100° @ 10 - 16 KT (60 foot pad winds)			
Temperature: 82°F		RH: 79%	Dewpoint: 75°F

Probability of KSC weather prohibiting launch:	70%
Probability of KSC weather prohibiting tanking:	N/A
Primary concern(s): Showers, anvil and cumulus clouds.	
Probability of KSC weather prohibiting launch for 24-hour delay	60%
Probability of KSC weather prohibiting tanking:	20%
Primary concern(s): Showers, anvil and cumulus clouds.	
Probability of KSC weather prohibiting launch for 48-hour delay	40%
Probability of KSC weather prohibiting tanking:	10%
Primary concern(s): Showers, anvil and cumulus clouds.	

Sunrise:	2/0629 EDT 3/0629 EDT 4/0630 EDT	Sunset:	2/2025 EDT 3/2025 EDT 4/2025 EDT		
Moonrise:	2/1240 EDT 3/1332 EDT 4/1426 EDT	Moonset:	3/0052 EDT 4/0119 EDT 5/0147 EDT	Illumination:	2 July 45% 3 July 55% 4 July 64%

Next forecast will be issued: As required